This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

WHAT IS CLAIMED IS:

1. A transformer comprising:

a bobbin having first and second tube-shaped members which are coaxial and integral with one another, said first tube-shaped member being located radially within said second tube-shaped member so as to form a gap located therebetween;

a first winding comprising an air-core coil located in said gap between said first and second tube-shaped members of said bobbin; and

a second winding affixed to said second tube-shaped member of said bobbin.

- 2. A transformer according to Claim 1, wherein said air-coil is not affixed to either said first or second tube-shaped members.
- 3. A transformer according to Claim 1, wherein said first winding has a smaller number of turns than said second winding and serves as an input winding which allows a first current associated with a first voltage to flow therethrough, said second winding serving as an output winding which allows a second current associated with a second voltage, higher than said first voltage, to flow therethrough.
- 4. A transformer according to one of Claim 3, further comprising a third winding wound on said second tube-shaped member.

00502804.2

16

10

5

- 5. A transformer according to Claim 4, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second current to flow therethrough.
- 6. A transformer according to one of Claim 1, further comprising a third winding, separate from said second winding, located on said second tube-shaped member.
- 7. A transformer according to Claim 6, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second current to flow therethrough.
- 8. A transformer according to claim 1, wherein said first and second tube-shaped members are coupled together by a radially extending base member.
- 9. A transformer according to claim 8, further including terminals extending from said radially extending base member.
- 10. A transformer according to claim 9, wherein at least two of said terminals are coupled to said secondary winding.

rub'

11. A transformer comprising:

a bobbin having first and second axially extending members which are coaxial and integral with one another, said first member being located radially within said second member so as to form a gap therebetween;

a first winding comprising an air-core coil located in said gap; and

a second winding affixed to said second member.

12. A transformer according to Claim 11, wherein said air-coil is not affixed to either said first or said axially extending members.

13. A transformer according to Claim 11, wherein said first winding has a smaller number of turns than said second winding and serves as an input winding which allows a first current associated with a first voltage to flow therethrough, said second winding serving as an output winding which allows a second current associated with a second voltage, higher than said first voltage, to flow therethrough.

- 14. A transformer according to one of Claim 13, further comprising a third winding wound on said second axially extending member.
- 15. A transformer according to Claim 14, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second

Aub.

5

5

00502804.2

current to flow therethrough.

- 16. A transformer according to one of Claim 1, further comprising a third winding, separate from said second winding, located on said second axially extending member.
- 17. A transformer according to Claim 16, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second current to flow therethrough.
- 18. A transformer according to claim 1, wherein said first and second axially extending members are coupled together by a radially extending base member.
- 19. A transformer according to claim 18, further including terminals extending from said radially extending base member.
- 20. A transformer according to claim 19, wherein at least two of said terminals are coupled to said secondary winding.

المملح